

Greeley County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 9 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Greeley County economy.¹

These 9 sectors have a total direct output of approximately **\$106.4 million** and support **362 jobs** in Greeley County. Running the model for all 9 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Greeley County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	362.4	25.06%	\$20,545,904	29.69%	\$106,398,230	153.77%
Indirect Effect	80.0	5.53%	\$5,322,525	7.69%	\$9,172,594	13.26%
Induced Effect	27.0	1.87%	\$1,729,588	2.50%	\$3,087,802	4.46%
Total Effect	469.3	32.46%	\$27,598,017	39.89%	\$118,658,626	171.49%

As shown in the above table, agriculture, food, and food processing sectors support **469 jobs**, or **32.46%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$118.7 million**, roughly **171.49% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 9 agriculture, food, and food processing sectors is approximately **\$27.6 million**, or **39.89% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **39.89% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **215 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Greeley County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	214.8	\$45,167,349
Grain farming	82.7	\$47,770,116
Animal production, except cattle and poultry and eggs	35.0	\$5,394,429
Support activities for agriculture and forestry	29.3	\$1,655,463
Dairy cattle and milk production	22.2	\$5,521,445
Real estate	12.5	\$1,877,775
Wholesale trade	10.7	\$2,159,256
Securities and commodity contracts intermediation and brokerage	5.1	\$343,356
Truck transportation	5.0	\$759,730
Accounting, tax preparation, bookkeeping, and payroll services	3.4	\$146,894

The grain farming sector directly contributes approximately **\$47.8 million** to the Greeley County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Grain farming	82.7	\$47,770,116
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	214.8	\$45,167,349
Dairy cattle and milk production	22.2	\$5,521,445
Animal production, except cattle and poultry and eggs	35.0	\$5,394,429
Wholesale trade	10.7	\$2,159,256
Real estate	12.5	\$1,877,775
Support activities for agriculture and forestry	29.3	\$1,655,463
Owner-occupied dwellings	0.0	\$1,118,670
Poultry and egg production	1.8	\$993,229
Farm machinery and equipment manufacturing	2.2	\$812,122

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Greeley County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	0.2	\$347,669.99
Grain farming	82.7	\$47,770,115.69
All other crop farming	2.6	\$293,483.44
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	214.8	\$45,167,349.05
Dairy cattle and milk production	22.2	\$5,521,444.58
Poultry and egg production	1.8	\$993,229.26
Animal production, except cattle and poultry and eggs	35.0	\$5,394,428.98
Bread and bakery product, except frozen, manufacturing	0.9	\$98,387.07
Farm machinery and equipment manufacturing	2.2	\$812,122.27

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Greeley County, the retail sector was omitted.